TABLE 5

COMBUSTION OF BLAST FURNACE GAS—COMPUTATION SHEET

Composition of Gas			Products of Combustion			
			O_2	CO_2	H_2O	
H_2	3.92X	8.2=		23.9	3.92	
CO	5	228	1.96			
0_2	23.95	.8.2 =	11.98	5		
$C0_2$	XC			12.9		
H_2	0.39			6	1.65	
0	12.96					
N_2	1.65					
	57.13	186	13.94	36.9	5.57	1
		1	0.39	1		
			13.55	36.91	5.57	1

Air	Supply	Excess Air	Products of Combustion in Molecular Vo			
Per Cent	Mol. Vols.		0_2	$C0_2$ H_2O	N_2	Excess N_2
100	67.75	0.0	0.0	36.91	111.33	0.0
				5.57		
100	81.30	13.55			122.17	10.84
120	94.85	27.10	2.71	36.91	133.01	21.68
				5.57		
140	121.95	54.20			154.69	43.36
180			5.42	36.91		
				5.57		

Expressed upon a Percentage Basis these Values are

100			0.0	24.00	3.62	72.38	
112			1.62	22.05	3.33	73.00	
114			2.99	20.40	3.08	73.53	
118			5.21	17.74	2.68	74.37	
0							